

The Heterodyne

Newsletter of the West Valley Amateur Radio Association

Annual BBQ & NAQP
Saturday August 19
11am - 2pm

At Sunnyvale's Baylands Park
Pickleweed Place
Reservation is under "WVARA"

When you get to Baylands
Park, turn **right** after going
through the main gate

Please see page 2 for
more BBQ information

WVARA Repeaters (W6PIY)		
Band	Frequency	PL
6 Meters	52.580- MHz	151.4 Hz
2 Meters	147.39+ MHz	151.4 Hz
1.25 Meters	223.96- MHz	156.7 Hz
0.70 Meter	441.35+ MHz	88.5 Hz
0.23 Meter	1286.2- MHz	100 Hz

Club Net

WVARA's club net is on the W6PIY repeaters each Tuesday at 8:30 pm. All repeaters are linked together during the net. The net script can be found at www.wvara.org/net.html.

Visitors Are Welcome!

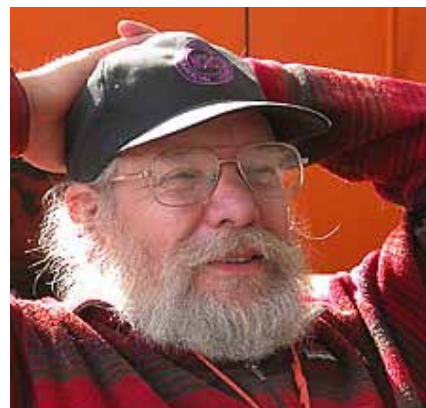
President's Letter

Way to go Field Day Team

Good teams not only have star players, but they also have enough depth to carry on when some of their star players are sidelined. This year, the WVARA Field Day team showed just how good it is.

Medical issues made our regular Field Day leader, Jim, K6EI very iffy for the big event. Bobby, K0XI (nee KA4VBF) and Bill, W9KKN stepped into the breach, organized, and ran an excellent field day operation. I had a conflict which kept me out of town the week before field day, so Bill (KKN) also took over as digital station captain. Bobby continued as VHF/UHF station captain, so both our leaders wore more than one hat.

We didn't rest on our laurels and just continue with what we did last year. This year we expanded our digital station to two transmitters and went from last year's 155 digital QSOs to 188 this year, a nice improvement in a declining sunspot cycle. We also gained a couple of digital operators.



Bill (KKN) set us up with networked N1MM logging software so everyone could see which bands were opening and how we were doing. Bobby set up a master power distribution system feeding 12 volts to our radios.

In some areas, we stayed true to our history of excellence. Our voice operators continued to rack in the QSOs, even engaging in a friendly competition with the CW operators on who could make the most QSOs on a given band. CW was, as it has been in past years, king of the roost in both QSOs and points. VHF, UHF, and satellite enjoyed a jump in QSOs.

Kevin, KK6VF again organized our GOTA station and acted as coach, helped by Bill, N6FFC GOTA. They hosted a number of people and made 30 QSOs.

Svend, KF6EMB again worked wonders with tower trailers, antenna deployment, drinks, microwave oven, and good fellowship.

Greg, N6GD led the CW effort while SSB was covered by Jon, K6WV for 20 meters; Jon, W6PI for 40 meters; and Jack, W6FB for 80 and 15 meters. Adriane, KG6RXL; Scott, AD6RL; and Peri, KI6SLX brought food and coffee to fuel the operation.

As always, we will learn from this year's experience and try to figure out how to have more fun with less effort next year.

73 Bill AE6JV

Callsign Change

**Bobby Barnett, formerly
KA4VBF, is now K0XI.**

Congratulations on the new, shorter call!

Annual WVARA Summer BBQ & NAQP

When: 11am - 2pm, Saturday, Aug 19

Where: Sunnyvale's Baylands Park, Pickleweed Place

Note: When you get to Baylands Park, turn right after going through the main gate.

There won't be an evening WVARA meeting in August. Instead, we are having our annual WVARA BBQ. Our location (see map below, the reservation is under "WVARA") includes multiple tables, grill, an AC outlet, and a covered awning for shade. There is an entry fee per car at Baylands Park, so you may prefer to carpool. We'll have hot charcoal and condiments -- *please bring your own meat to grill.*

Let us know via WVARA-Chat what you're planning to bring. We need volunteers to be in charge of the following:

- 1) Setting up the grill (bringing, setting-up and lighting the charcoal)
- 2) Condiments, paper plates and plastic ware

- 3) A couple liter bottles of soda
- 4) Baked beans
- 5) A green salad or potato salad
- 6) Buns for hamburgers and hot dogs
- 7) Fruit (watermelon or whatever)
- 8) Dessert items (cookies or equivalent)

Our BBQ coincides with the SSB portion of the North American QSO Party (NAQP) which means this is an ideal opportunity for a really fun portable radio operation. (NAQP Contest rules are at: <http://www.ncjweb.com/NAQP-Rules.pdf>).

We can't put up any big Field Day-style antennas at Baylands, but we can still string up an NVIS dipole and/or put an HF whip on top of the metal awning and have some fun in the contest. Let me know if you are interested in volunteering to be in charge of either of the following two tasks:

- 1) Setting up an HF SSB station.
- 2) Setting up a VHF station for event coordination through the WVARA repeater

- Jim, K6EI

k6ei at earthlink.net





December 160 Meter Contest Results:

**Jim, K6EI was division winner in the
Northwestern Division QRP Unassisted
category. Congratulations Jim!**

**If you haven't seen our updated web site,
check it out, it's awesome! Many thanks
to Larry KG6ENF and others who helped!**

wvara.org

**Recent New Members will be listed in the
September issue of the Heterodyne.**



The Northern California DX Club wants to help you get on the air on the HF Bands

The Northern California DX Club is offering free classes aimed at helping you to pass your General Class license exam, build your first effective HF station and learn HF operating skills. Enhancing your HF experience will be done with classes on advanced HF phone, CW and Digital operating skills, propagation analysis, antennas and other topics. These classes are arranged in 3 tracks so that you may take only those classes that interest you. Some classes will be taught using Power Point presentations delivered to your computer over Webex. You need no special software as Webex allows you to see and hear the presentation and participate in the two way audio stream. Other classes will be taught by your Elmer at his or her own shack. There you will experience the skills that you are learning on the air! Our 13 instructors are experts in their fields with literally hundreds of years of active ham radio experience. Our goal is to put you on the air on the HF bands and give you the background to enjoy the many aspects of the HF experience. Some of our instructors are great teachers, others are operators with many years or SSB, CW and Digital mode experience, while others enjoy building state of the art equipment. The classes will be taught at your level. We will strive to make each class fun. We want you to succeed!

All you need for most classes is paper and a pencil. For the General classes you must bring a calculator and obtain one or more of the ARRL General Class guides.

We plan to kick off classes in mid-September 2017. Information about each track and the classes it contains will be posted to the NCDXC web site (www.ncdxc.org) Please look at our web site frequently for updates as new info will be added as soon as it is available.

73 and see you in September! The NCDXC Elmer team.

Additional information at www.ncdxc.org, select the “Elmer Project” button.

QST

The SFM ARC would like to announce that we will once again be running our 10 week CW for beginners course. This course will be 10 weeks long held once a week for 2 hours (7PM until 9PM) each Wednesday evening in Carmichael. If you, your club members, or someone you know are interested in taking our CW class we encourage you to sign up **NOW**. This class is made available to EVERYONE that wants to take it. You do NOT need to be a licensed operator to join our class. We have locked a start date for the class, we will begin Wednesday evening **September 13th**(Ending November 15th).

Everyone can benefit from this course! For those with no Morse Code knowledge this is an excellent course where you or your friends will be taught the complete International Morse Code alphabet, numbers, pro-signs, how to adjust and send on a Morse Code straight key and more interesting general information than one brain can store! The goal of our course is to have all students up to speed around week 6, and on the air! This is also a great opportunity for those of you who may have already taken our course before. This class offers a chance for returning students to brush up on their code, increase their speed, build on-air confidence and get a better understanding of the 'pro-signs' that CW radio ops use on-air.

The CW class is **\$50** for new members, and only **\$20** for returning members who bring their previously supplied Morse Key and Oscillator. As always, as a new student you will receive a **FREE** Morse Code straight key and a Code Oscillator to keep at the completion of the course. These items are worth more than \$40 by themselves.

Now for the important part... This is a **FIRST COME FIRST SERVE COURSE!** We will Limit the amount of students who are able to take this course. Therefore it is very important that you make your payment **AS SOON AS POSSIBLE** to secure your seat in this class. We do not take walk-ins at the door.

To make payment by check you must **FIRST** send an email to admin@w6sfm.com to indicate that you are interested and you are going to make your payment. We will hold your seat for 7 days from your email while we await your payment to come:

If you prefer, you may also pay via PayPal or Credit Card. PayPal and CC payments will be charged an extra \$2.00 for credit card processing fees. If you would like to make your payment this way please send an email to admin@w6sfm.com to request an electronic payment you can make on-line.

If you have ANY questions please do not hesitate to email us back at your convenience. Thank you and we hope to see you at our next class! 73,

Michael
N6MQL
President W6SFM SFM ARC

Microwave Update 2017 - Oct 26-29 - Registration is Open

On Line Registration is now open for both the conference and for hotel rooms. Sign up today!

To register, simply go to www.microwaveupdate.org and click on the **Registration** tab. Registration price includes two days of presentations, conference proceedings book and CD, two lunches, a banquet dinner and drawings for door prizes. We will also have vendor exhibits, a test lab, indoor and outdoor swap meets and a surplus tour.

We have a reserved block of 50 discounted hotel rooms at the conference hotel. Room price includes a breakfast buffet, WiFi and parking, and SJC (San Jose, CA) airport shuttle when available. For more info and to register for a room, please go to the **Hotel** tab. The deadline for discounts is Oct 12th, but the rooms may run out before then... it's first come, first served.

MUD 2017 is October 26-29 in Santa Clara, California

Microwave Update 2017 will be held on October 26-29, 2017 in Santa Clara, California (Silicon Valley / San Francisco Bay Area). The MUD conference is dedicated to microwave equipment design, construction, and operation. It is focused on, but not limited to, amateur radio on the microwave bands. Since 1985, this annual conference, targeted at microwave radio enthusiasts, generally has attendance of about 100 Amateur Radio Operators from around the world.

For more information on the conference, please check out www.microwaveupdate.org or email questions to mud2017.info@gmail.com

Please forward this announcement to any other mail lists and clubs that you may belong to.

Call for Papers

The MUD 2017 program committee is now calling for papers and presentations on the technical and operational aspects of microwave amateur radio communications. Tell us about your latest project, design or operating adventures. The technical program will take place Friday and Saturday, October 27 and 28, 2017, in Santa Clara, California.

Please click on the >> **Call for Papers** << link at www.microwaveupdate.org (or the **Content** tab) to learn how to submit your paper and presentation. Surely you have something new and exciting to share this year! **Submissions are due in the first week of September, but please send a short**

email to mud2017.papers@gmail.com sooner with a proposal. Don't wait until the beginning of September to let us know what you're planning!

Presentations selected for the technical program may be given in person or by proxy. We encourage presenters to submit a companion paper for publication in the proceedings book. See the website for more info. Papers may be submitted even if there will not be a presentation, with the same publication deadlines. Short papers (1 or 2 pages) are welcome, in addition to full length. Survey papers that summarize current know-how and tutorials that help and encourage newcomers are also welcome.

Suggested topics include:

- * Centimeter, millimeter, submillimeter and light wavelengths
- * Antenna and feed design, simulation, construction, measurement, application
- * Microwave building blocks (LNAs, PAs, LO chains, Mixers, Synthesizers, Filters, etc)
- * Transverters (single and multiband)
- * Software defined radios
- * Fixed station, Rover and Beacon design, packaging and operation
- * EME, Satellite and Earth station design and operation
- * Operating techniques, software and other aids
- * Weak signal propagation modes and enhancements
- * Digital modes for weak signals or data communications
- * CAD tools (preferably free or low cost) for circuit, antenna, path and system simulation and design
- * Homebrew designs with modern commercial components
- * Construction techniques (SMT, wirebond, microstrip, waveguide, substrates, homebrew)
- * Conversion of surplus microwave equipment
- * Test equipment and techniques (low cost, modern or surplus)
- * Or – suggest your own topic

Field Day Photos by Bill AE6JV



Rebecca, Chuck-AD6CL, Elizabeth, Rachel,
Peter-K6UCK Kamas



Dennis W1UE



Nick KZ2V



CW Operator



Jon W6PI



Brian KJ6WH, Bill N6FFC



BBQ Dinner



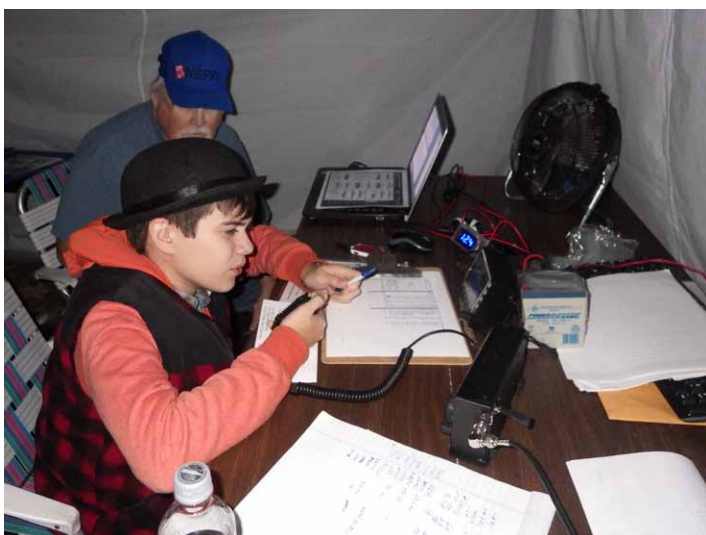
Digital Station



Greg N6GD



Bobby Chases a Satellite



GOTA with N6FFC



Scott AD6RY

WVARA Net Check-Ins (W6PIY)						
Tuesdays at 8:30 PM						
Call Sign	Name	06/13/17	06/20/17	06/27/17	07/04/17	07/11/17
Total		21	15	17	11	17
AB6XS	Kevin	X				
AE6JV	Bill					X
AF6AE	Bill	X	X	X	X	X
AG6YO	Kevin	X	X			X
K0FRG	Bob	X	X	X		X
K6BBY	Chris					
K6BIB	Bogdan					
K6BRF	Bert			X		
K6CES	Chuck					
K6SCC	Brian			X		
KC6ZKT	Steve		X	X		X
KE6MT	Rex	X		X		
KF6EMB	Svend	X	X	X	X	X
KI6SLX	Peri					X
KJ6CQJ	Dean	X				X
KJ6GMO	Sue	X				X
KJ6ZZI	Michael	X	X	X	X	X
KK6VF	Kevin	NET	NET	NET	NET	NET
KK6ZCT	Steve					
KM6DAC	Cameron	X	X	X		
KM6FDD	Lloyd	X			X	
KM6JI	Yoon		X	X	X	X
KS6PD	Steve					
N6FYR	Matt	X	X			
N6GD	Greg	X				
N9CU	Andy	X	X	X	X	X
NU6P	John					X
W6DGS	Dan	X				
W6ESL	Tom	X		X	X	
W6IA	Mark	X	X	X		X
W6PK	Phil	X			X	
W9KKN	Bill	X	X	X	X	
WB6KHP	Dave	X	X	X	X	X
WC6YJ	Clay		X	X		X

WVARA Net Check-Ins (W6PIY, Continued)					
Tuesdays at 8:30 PM					
Call Sign	Name	07/18/17	07/25/17	08/01/17	08/08/17
Total		15	11	13	19
AB6XS	Kevin			X	X
AE6JV	Bill				X
AF6AE	Bill			X	X
AG6YO	Kevin		X		
K0FRG	Bob	X			X
K6BBY	Chris				X
K6BIB	Bogdan		X		
K6BRF	Bert	X			
K6CES	Chuck			X	
K6SCC	Brian				
KC6ZKT	Steve				X
KE6MT	Rex			X	
KF6EMB	Svend	X	X	X	X
KI6SLX	Peri				X
KJ6CQJ	Dean	X	X		X
KJ6GMO	Sue	X	X		X
KJ6ZZI	Michael	X			X
KK6VF	Kevin	NET	NET	NET	NET
KK6ZCT	Steve	X		X	
KM6DAC	Cameron	X			
KM6FDD	Lloyd				
KM6JI	Yoon	X		X	
KS6PD	Steve	X			X
N6FYR	Matt		X	X	X
N6GD	Greg				
N9CU	Andy		X		X
NU6P	John				X
W6DGS	Dan				
W6ESL	Tom	X			
W6IA	Mark	X		X	
W6PK	Phil				X
W9KKN	Bill		X	X	
WB6KHP	Dave	X	X	X	X
WC6YJ	Clay	X	X	X	X

Treasurer's Report

Here are the WVARA financial reports for the first half of the year. Note that these reports do not include the proceeds from the July De Anza Flea Market which will be available in the Sept. Heterodyne. As previously reported, the prepayment for the Flea Market has front-weighted our expenses, resulting in a loss for the first 6 months of 2017. On the plus side, donations, at \$287 are running slightly ahead of budget (\$500 for the year). If you can, be generous and donate to the club. We need at least another \$213 before the year ends.

Bill (AE6JV) and I will be traveling for much of July & August, and will not make the WVARA picnic/BBQ at Baylands on 8/19 (See WVARA.org for details). Have a great time without us, and good luck in the North American QSO Party (NAQP).

Preliminary Flea Market results, show that our income (\$3180 in gate fees plus 345.00 from the concession stand) exceeded our expenses (\$2400 to ASVARA + \$239 misc. expenses) by \$886, a tidy profit for the morning's efforts although it did not meet the budgeted target of \$1100. The discrepancy is in largely due to our failure to budget for the misc. expenses, which include drinks, donuts and supplies. Next year these expenses will be budgeted..

Peri Frantz, KI6SLX
WVARA Treasurer
treasurer@wvara.org

WVARA
Quarterly Activity
January through June 2017

07/11/17

	Jan - Mar '17	Apr - Jun '17	TOTAL
Income			
4200 — Misc. Income	10.11	30.12	40.23
4800 — Donations	133.00	154.00	287.00
4100 — Program Income			
4110 — Membership Dues			
4114 — Fam. Repeater (\$18)	72.00	18.00	90.00
4113 — Fam. Assn. (\$20)	100.00	20.00	120.00
4112 — Indiv. Repeater (12)	192.00	108.00	300.00
4111 — Indiv. Assn. (\$15)	375.00	135.00	510.00
Total 4110 — Membership Dues	739.00	281.00	1,020.00
Total 4100 — Program Income	739.00	281.00	1,020.00
Total Income	882.11	465.12	1,347.23
Expense			
5300 — Flea Market Expenses	2,400.00	0.00	2,400.00
5500 — Program Expenses			
6000 — Repeater Expenses			
6100 — Repeater Maintenance	81.07	0.00	81.07
Total 6000 — Repeater Expenses	81.07	0.00	81.07
Total 5500 — Program Expenses	81.07	0.00	81.07
5200 — Membership Expenses			
5210 — Badges	40.00	96.00	136.00
Total 5200 — Membership Expenses	40.00	96.00	136.00
5100 — Administrative Expenses			
5190 — Misc. Expense	0.00	10.00	10.00
5140 — Web Hosting Expense	59.40	0.00	59.40
5110 — Finance Fees Paid	21.16	3.56	24.72
Total 5100 — Administrative Expenses	80.56	13.56	94.12
Total Expense	2,601.63	109.56	2,711.19
Net Income	-1,719.52	355.56	-1,363.96

WVARA
Statement of Position
As of June 30, 2017

07/11/17

	<u>Jun 30, '17</u>
ASSETS	
Current Assets	
Checking/Savings	
1000 — Financial Accounts	
1900 — Cash	
1910 — Petty Cash	140.23
Total 1900 — Cash	140.23
1200 — Savings; BotW	4,495.18
1300 — Paypal	2,177.96
1100 — Checking; BotW	1,653.54
Total 1000 — Financial Accounts	8,466.91
Total Checking/Savings	8,466.91
Total Current Assets	8,466.91
TOTAL ASSETS	8,466.91
LIABILITIES & EQUITY	
Equity	
3300 — Unrestricted Net Assets	
3320 — Repeater Balance	2,593.70
3900 — Retained Earnings	0.04
3310 — Associaton Balance	7,237.13
Total 3300 — Unrestricted Net Assets	9,830.87
Net Income	-1,363.96
Total Equity	8,466.91
TOTAL LIABILITIES & EQUITY	8,466.91

2017 West Valley Amateur Radio Association Board

President: Bill Frantz, AE6JV
Vice President: Bobby Barnett, KA4VBF
Secretary: Jon Kelley, K6WV
Treasurer: Peri Frantz, KI6SLX
Directors:
John Glass, NU6P, 2016-2017
Bill Fehring, W9KKN, 2016-2017
Dave Schultheis, WB6KHP, 2016-2017
Jim Peterson, K6EI, 2017-2018
Svend Jensen, KF6EMB, 2017-2018
Kevin Smith, KK6VF, 2017-2018

Club Web Page: <http://www.wvara.org>
Heterodyne Editor: Phil Verinsky, W6PK
Internet Postmaster: Phil Verinsky, W6PK
Meeting Refreshments: Kevin Smith, KK6VF
Repeater Trustee: Chuck Kamas, AD6CL
Webmaster: Larry Goodwin, KG6ENF

Speaker Committee:

John Glass, NU6P
Scott Emery, AD6RY
Jim Peterson, K6EI
Jon Kelley, K6WV
Phil Verinsky, W6PK

DX Special Interest Group:
Dennis Lyden, AG6HE

Parachute Mobile QSOs on August 26

On August 26, there will be skydivers trying to make QSOs. Operations will be on:

146.43 FM

14.250 HF (SSB?)

D-STAR REF014C

APRS + Live videos

See: <http://parachutemobile.org> for full details.

73 Bill AE6JV

Club address:

West Valley Amateur Radio Assn
P.O. Box 6544
San Jose, CA 95150-6544

The Heterodyne is published monthly by the West Valley Amateur Radio Association and sent to all club members via the web. Please obtain permission from the author to re-publish any article in this publication.